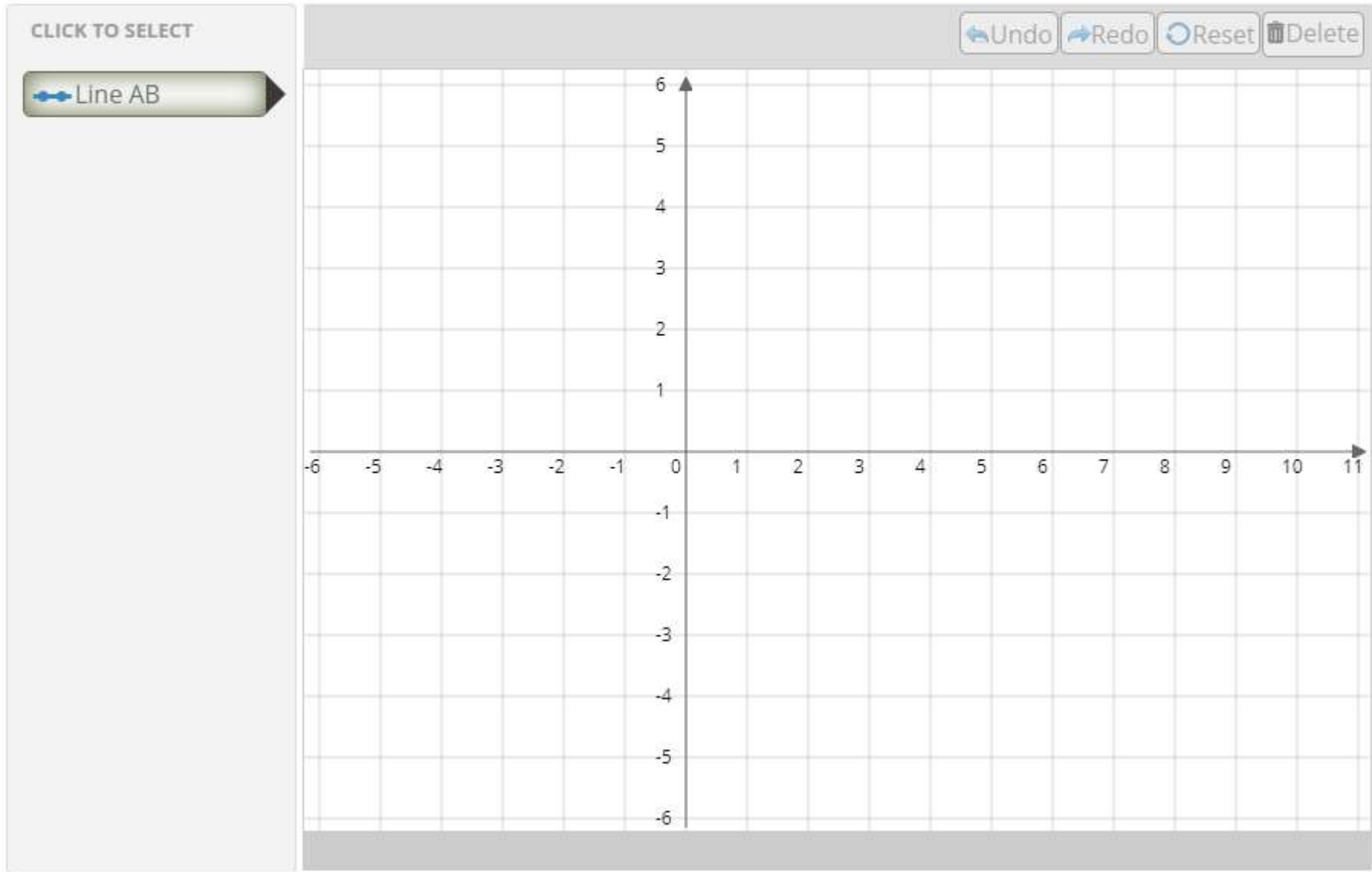


# Algebra Test Review

Directions - Graph the following slope intercept equation:

$$y = \text{[redacted]}$$



Using the following graph, determine the equation of the graph in slope intercept form.

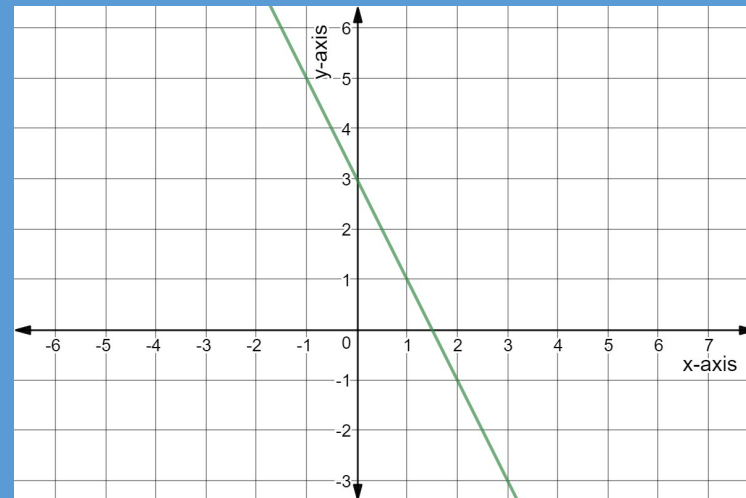
DRAG DROP VALUES

$y =$

$y =$

$y =$

$y =$



Slope intercept form:

**Directions - Convert each equation to slope intercept form, then determine if the lines are parallel, perpendicular, or neither(intersecting).**

	A) $2x + 4y = 8$	B) $4x - 2y = 8$
Slope Intercept Equation	<input type="text"/>	<input type="text"/>
Para, Perp. or Neither	<input type="text"/>	

Directions: Identify the slope (m) and y-intercept (b) of the graph of each equation.

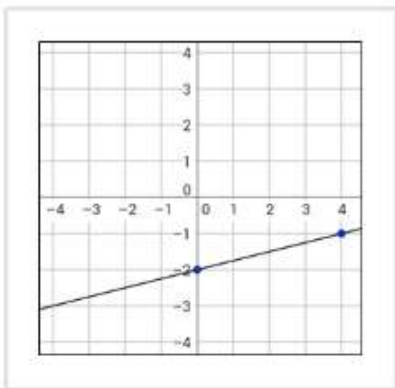
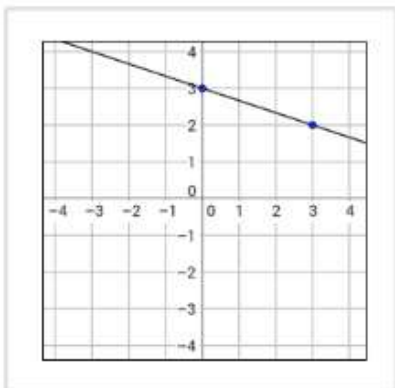
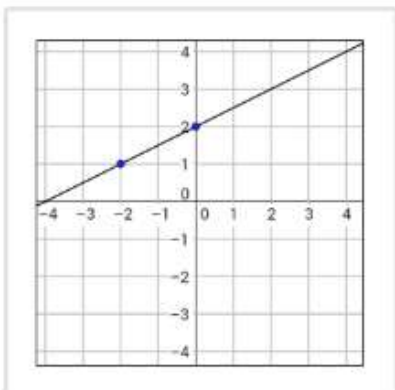
$$y = 3x - 4$$

m =

b =

←	→	↶	↷	✕	✕
1	2	3	+	=	[ ]
4	5	6	-	>	$\frac{\square}{\square}$
7	8	9	×	<	$\square^{\square}$
0	.	$\frac{\square}{\square}$	÷	( )	

Directions - Match the each line with its correct slope-intercept equation.



ANSWER CHOICES ?

- $y =$  [blue box]
- $y =$  [blue box]
- $y =$  [blue box]
- $y =$  [blue box]
- $y =$  [blue box]

What is the equation, in slope-intercept form, of the line parallel to  $y = 5x - 1$  that passes through the point with coordinates  $(-2, 1)$ ?

Show your work on the scratchpad.

$y =$

←	→	↶	↷	✕	ⓧ
1	2	3	+	=	[ ]
4	5	6	-	>	$\frac{\square}{\square}$
7	8	9	×	<	$\square^{\square}$ $x$
0	.	$\frac{\square}{\square}$	÷	( )	

Directions - Determine if the two lines are parallel, perpendicular, or intersecting (neither). If necessary, convert each equation to slope-intercept form ( $y = mx + b$ ).

$L_1$  :   $L_2$  :

$L_1$  equation :

$L_2$  equation :

Choose:



Find the slope:

$(3, -1)$   $(12, 17)$

A

B

C

D

In a direct variation  $y = 24$  and  $x = 6$  Write a direct variation equation that shows the relationship between  $x$  and  $y$ .

A

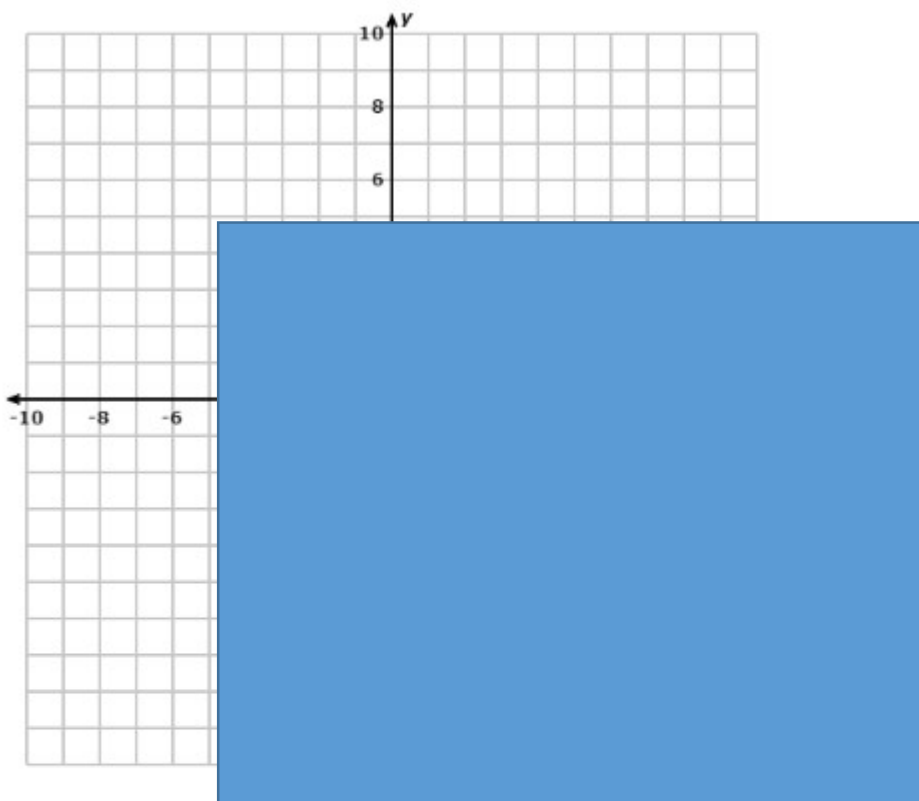
B

C

D

E

Consider the graph below.



What is the equation of the line in slope-intercept form?

- A  $y =$  [redacted]
- B  $y =$  [redacted]
- C  $y =$  [redacted]
- D  $y =$  [redacted]

Part A

A line passes through the points  $(4, 2)$  and  $(-8, -2)$

What is the slope of the line?

A  $m =$

B  $m =$

C  $m =$

D  $m =$


Part B

What is the  $y$ -intercept of the line?

$b =$

Match each table of information to its constant of proportionality.

**DRAG DROP VALUES**



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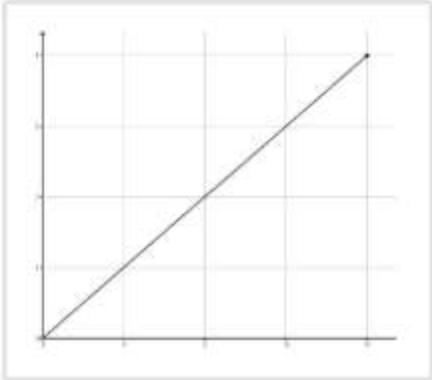
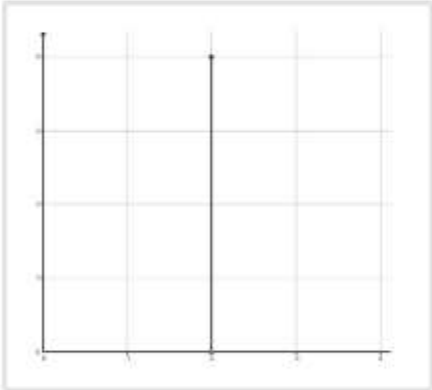
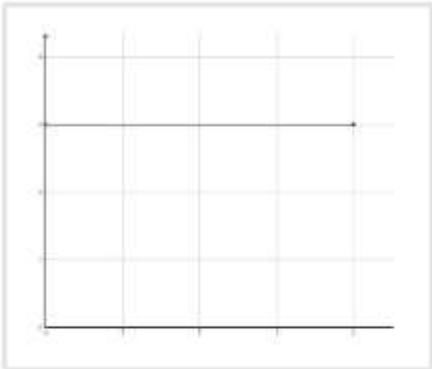
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2	3	4	5	6	7
					

					
20	30	40	50	60	70

Match each segment with its slope.



ANSWER CHOICES ?

A vertical panel containing a list of answer choices. Each choice is represented by a small icon of a line segment (a double vertical bar) followed by a large blue rectangular area where the slope value would be entered. The blue area is currently empty.

Directions - Find the x and y-intercepts for each Standard Form equation. Write your answer as an ordered pair.

$$-6x + 3y = 36$$

$x$  - intercept =

$y$  - intercept =

←						→						↶						↷						✖					
1	2	3	+	=	[ ]	4	5	6	-	>	$\frac{\square}{\square}$	7	8	9	×	<	$\square^{\square}$	0	.	$\frac{\square}{\square}$	÷	( )							